

IN THE SPECIFICATION

Please replace the paragraph beginning on page 5, line 12 and ending on page 5, line 13 with the following amended paragraph.

Fig. 4 shows ~~a sinogram produced from projection information values acquired from a phantom, and the projection information values~~an embodiment of a positional relationship between a phantom and a rotary assembly.

Please replace the paragraph beginning on page 5, line 14 and ending on page 5, line 14 with the following amended paragraph.

Fig. 5 shows ~~the positional relationship between a phantom and a rotary assembly~~an embodiment of a sinogram produced from projection information values acquired from a phantom, and the projection information values.

Please replace the paragraph beginning on page 6, line 9 and ending on page 6, line 11 with the following amended paragraph.

To begin with, the overall configuration of an X-ray CT system of an embodiment will be described below. Fig. 1 is a block diagram of an X-ray CT system 1. As shown in Fig. 1, the X-ray CT system 1 comprises a scanner gantry 2 and an operating console 6.

Please replace the paragraph beginning on page 8, line 9 and ending on page 8, line 17 with the following amended paragraph.

A display device 68 and an operating device 70 are also connected to the data processing unit 60. Tomographic image information and other information transferred from the data processing unit 60 are displayed on the display device 68. An operator handles the operating device 70 so as to enter various instructions or

information which is then transferred to the data processing unit 60. The operator uses the display device 68 and operating device 70 to interactively operate the X-ray CT system 1. Incidentally, the scanner gantry 2, a radiographic table 4, and the operating console 6 constitute an acquisition system that scans a subject or a phantom so as to acquire tomographic image data.

Please replace the paragraph beginning on page 17, line 24 and ending on page 18, line 1 with the following amended paragraph.

At this time, the correction coefficient information 605 reflecting low signal-to-noise ratios as indicated in Fig. 10(b) is modified in S510. Correction coefficient information produced using the phantom having a small diameter of 35 cm is not modified.

Please replace the paragraph beginning on page 20, line 4 and ending on page 20, line 6 with the following amended paragraph.

Thereafter, as shown in Fig. 6, high-order correction function information 607 containing the correction coefficients K0, K1, and K2 is preserved in the storage device 66 (~~step S509~~step S512). The process is then terminated.